INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/35665

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G02C 3/00; F21L 15/14		
US CL : 351/41, 158; 362/105, 551		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S.: 351/41, 158; 362/105, 551		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USPTO APS EAST		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X US 4,959,760 A (WU) 25 September 1990 (25.09.1	990), see entire reference.	1-3, 5, 7, 9-46
Y		4, 6, 8
Y US 4,283,127 A (ROSENWINKEL et al) 11 Augus reference.	t 1981 (11.08.1981), see entire	4, 6, 8
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Further documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:	"T" later document published after the int	emational filing date or priority
"A" document defining the general state of the art which is not considered to be of particular relevance	date and not in conflict with the appli principle or theory underlying the inv	ention
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive ste	claimed invention cannot be p when the document is
"O" document referring to an oral disclosure, use, exhibition or other means	combined with one or more other suc being obvious to a person skilled in th	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report	
20 March 2003 (20.03.2003)	27 JUN 2003	
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Commissioner of Patents and Trademarks Box PCT	Hung X Dang	
Washington, D.C. 20231 Facsimile No. (703) 305-3230	3 3	$\Omega = \Omega A$
Facsimile No. (703) 305-3230 Telephone No. (703) 308-0550 Form PCT/ISA/210 (second sheet) (July 1998)		